

## CLAIMS:

1-21. (previously cancelled)

22. (currently amended) A method for relaying, at a mobile packet communication network, application data between a mobile station ~~first and second nodes~~ a content provider server, comprising the steps of:

in response to receipt of a packet communication registration request from the mobile station, identifying the mobile station based on an originator ID of the mobile station included in the packet communication registration request;

if the mobile station is successfully identified,

\_\_\_\_\_ establishing, without performing either an LCP negotiation or an IPCP negotiation, a packet communication link between the first node ~~mobile station~~ and the mobile packet communication network, that which implements packet communications between the first node ~~mobile station~~ and the mobile packet communication network, wherein headers added to the application data through the packet communication link dispense with an packet protocol identifier and IP addresses of the mobile station and the content provider server;

establishing, over the packet communication link, one or more a logical communication connections between the first node ~~mobile station~~ and the mobile communication network in order to communicate the application data between the first node and one or more second nodes response to receipt from the mobile station of a connection setup request that includes a URL of the content provider server in a data field thereof, wherein a header added to the application data through the logical communication connection comprises a logical number that identifies the logical communication connection and dispenses with port identifiers of the mobile station and the content provider server; and

while relaying the application data between the first node and the one or more second nodes, conducting at the network communication protocol conversions on the

~~application data to be sent to the first node and received therefrom~~establishing a TCP/IP connection with the content provider server;

receiving the application data from the content provider through the TCP/IP connection; and

sending the received application data to the mobile station through the packet communication link and the logical communication connection.

23-27. (currently cancelled)

28. (previously added) A method according to claim 22, wherein the packet communication link includes at least one wireless portion therein and performs control and management of wireless communications.

29. (currently amended) A method according to claim 28, wherein the ~~first~~ nodemobile station is a wireless mobile terminal.

30. (currently amended) A method according to claim 29, wherein the packet communication link performs mobility management of the ~~first~~ nodemobile station.

31. (currently cancelled)

32. (currently amended) A method according to claim 22, wherein the logical communication connection ensures delivery of application data between the ~~first~~ nodemobile station and the ~~network~~ content provider server.

33. (currently cancelled)

34. (currently amended) A method according to claim 22, wherein the ~~one or more second nodes are~~ content provider server is ~~data sources~~ located outside the mobile communication network.

35. (currently amended) A method according to claim 34, wherein the ~~one or more second nodes are~~content provider server is connected to the mobile communication network over a public data communication network.

36-55 (currently cancelled)